Aerospace North West

IMechE Aerospace North West

Meeting Minutes

A meeting of the IMechE Aerospace North West committee was held on **Monday 24th May 2018** at at UCLAN, Preston. The meeting commenced at 18:30 till 20:30.

<table>
<thead>
<tr>
<th>Chairman</th>
<th>Paul Gardner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vice Chairman</td>
<td>VACANCY</td>
</tr>
<tr>
<td>Immediate Past Chairman</td>
<td>Euan Mason</td>
</tr>
<tr>
<td>Hon Secretary</td>
<td>Rebecca Donald-Lopez</td>
</tr>
<tr>
<td>Hon Treasurer</td>
<td>Manuel Donald-Lopez</td>
</tr>
<tr>
<td>Committee members</td>
<td>Martin Baxter</td>
</tr>
<tr>
<td></td>
<td>Billy Beggs</td>
</tr>
<tr>
<td></td>
<td>Ivan Dean</td>
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<tr>
<td></td>
<td>Dave Entwistle</td>
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<tr>
<td></td>
<td>Emma-Jane Guy</td>
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<td></td>
<td>Martin Hyman</td>
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<td>Andrew Medd</td>
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<td></td>
<td>Thurai Rahulan</td>
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<td></td>
<td>Joseph Soltan</td>
</tr>
<tr>
<td></td>
<td>Clive Winby</td>
</tr>
</tbody>
</table>

1 **ATTENDEES**

- Billy Beggs
- Rebecca Donald-Lopez: BAE SYSTEMS / Hon Secretary IMechE ANW
- Dave Entwistle
- Paul Gardner: Safran Nacelles / Chairman IMechE ANW
- Andrew Medd: IMechE Education Advisory Group
- Thurai Rahulan: University of Salford / Royal Aeronautical Society
- Joseph Soltan
- Clive Winby

2 **APOLOGIES WERE RECEIVED FROM**

- Martin Baxter: BAE SYSTEMS
- Ivan Dean: Past Chairman IMechE ANW
- Manuel Donald-Lopez: BAE SYSTEMS / Hon Treasurer IMechE ANW
- Martin Hyman: Business Consultant
- Clive Winby: SILCOMS Ltd.

The committee welcomed Billy Beggs and thanked him for hosting our meeting, joining our committee and agreeing to present a lecture for us later in the year.
3  **UCLAN**

Billy Beggs presented an overview of how UCLAN are involved with Aerospace. UCLAN are currently building an Engineering Innovation Centre (EIC). The centre aims to exploit its location in the North West, due to the high number of engineering and aerospace companies. The centre has £44m of funding 50% from academia and 50% from industry. The vision was: where is industry going and what does it need? The centre aims to address the shortage of engineering graduates and better arm them for employment. The centre will include a new flight simulator suite with 5-axis flight simulators as well as wind tunnels. The EIC should be completed in 2019.

Billy reported that UCLAN are working with The University of Manchester’s National Graphene Institute (NGI), and that their UAV flew at Farnborough Air Show 2016, being the world’s first graphene skinned aircraft to fly in public. UCLAN have also completed the first experiment of its kind, sending graphene into near space.

UCLAN also currently run BEng (Hons) and MEng Aerospace Engineering degrees courses accredited by the UK Engineering Council.

4  **MINUTES FROM THE LAST MEETING**

No corrections or comments were raised for the last meeting notes.

5  **REVIEW OF ACTIONS FROM LAST MEETING**

5.1  **Rebecca Donald-Lopez** took an action to send a personal email to the next new meeting attendee who books via the website.

   Action Complete

5.2  **Manuel Donald-Lopez** to ask HQ why we received two lots of grant (~£2,200 extra).

   Rebecca reported that Manuel has sent an email but had no reply. It was decided that we must insist that the grant is returned.

   New Action: Manuel Donald-Lopez

5.3  **Joseph Soltan** took an action to liaise with Solvay regarding a lecture in the North West and try to set a date in September.

   Joseph reported that Sovay were happy to present a lecture in the North West, that the materials for this lecture are in place and we just need to decide when and where to hold it. It was decided to hold the event at UCLAN at the end of October.

   Action carried over: Joseph Soltan to obtain a suitable event date from Solvay.
Billy Beggs stated that he would be able to arrange room hire for the event.
**Action: Billy Beggs** to arrange room hire once we get the date from Solvay.

5.4 **Paul Gardner to arrange a date for a site visit to Safran to see the automated fibre placement machine.** Paul reported that there is no agreed date as yet.

*Action carried over*

5.5 **Paul Gardner to contact for Blackpool Spitfire simulator.** Paul to query what will be the difference between the IMechE event and events open to the general public. Paul reported that he’s had no response.

*Action carried over*

5.6 **Paul Gardner to contact MBDA regarding a visit.** Paul reported that SAFRAN are arranging another visit there, and that we need to back off asking for a visit for a while.

*Action closed*

5.7 **Manuel Donald-Lopez to speak to Queen Elizabeth Class integration team and see if anyone can do a talk on the upcoming F35 trials.**

Rebecca reported that Manuel hasn’t had a response back yet. Billy Beggs offered to also ask one of his contacts.

*Action: Manuel Donald-Lopez & Billy Beggs*

5.8 **Clive Winby to ask contacts if anyone knows a suitable speaker for a talk on Manchester Airport modifications.** No update. Rebecca took an action to email Clive.

*Action carried over*

5.9 **Andrew Medd took an action to obtain contact details for the Model Aircraft event from Lancashire Area.**

*Action Complete*

5.10 **Thurai Rahulan took an action to contact Behrooz Bazegar to ask if he will present a lecture on Beluga XL, in Manchester in October.**

Thurai reported that Bahooza has agreed to this event but that it would need to be held in January or February in 2019. This lecture is to be joint with RAeS Manchester Branch.

*Action Complete*
5.11 **Martin Hyman** to contact Martyn Shaw from Bolton University and see if he would be interested in joining the committee. Email sent, follow up required.  
**Action carried over**

5.12 **Rebecca Donald-Lopez** to contact Billy Beggs, UCLan’s Engineering Innovation Manager for a possible link with the committee. Email sent, follow up required.  
**Action Complete**

5.13 **Paul Gardner** took an action to feedback our suggestions regarding the Graphene event to AMSTAC.  
**Action Complete**

5.14 **Rebecca Donald-Lopez** to email Emma Guy and ask ‘what’s the official guidance on event attendance counting towards CPD/Chartership?’  
Rebecca reported that she had received emails from Emma Guy and Lisa Meenan on the matter, but that there doesn’t seem to be a straight forward answer.  
**Action carried over: Rebecca** to compile responses and report back.

5.15 **Martin Hyman** to contact Mark Wood and ask if he’s happy to have his details passed on.  
**Action Complete**

5.16 **Rebecca Donald-Lopez** took an action to email the committee asking if anybody else is interested in the role of Vice Chair and state David’s interest. No interest was received. This will be formalised at the next meeting.  
**Action Complete**

5.17 **Paul Gardner** took an action to draft an email to send to the region asking for new committee members.  
Paul reported that he’d not drafted an email, but had looked at the welcome pages for other committees and will focus on updating our welcome page instead.  
**New Action: Paul Gardner**

5.18 **Rebecca Donald-Lopez** took an action to create a doodle poll in order to find a suitable date for the next meeting.  
**Action Complete**
6 TREASURERS REPORT
Rebecca Donald-Lopez circulated the finances provided by Manuel Donald-Lopez, see appendix 2 for further information. It was noted that two lots of grant have been received on the same day for a similar amount. Rebecca reported that Manuel has sent an email but had no reply. It was decided that we must insist that the grant is returned.

Action: Manuel Donald-Lopez

7 AEROSPACE DIVISION & HQ UPDATES
Paul Gardner reported that he hadn’t received the minutes from the last Aerospace Board meeting at HQ and that he would send them out when he does.

Action: Paul Gardner to send out Aerospace Board meeting minutes.
Paul reported that there has been a request to start an Indian Aerospace centre for IMechE. There was a presentation at the board meeting of what they want to do, which included collaborating with the institute of science and holding 1 day seminars.
Paul reported that Jen Baxter, head of Transport gave a presentation and that there is a new head of Engineering.
He also reported that the UAS Challenge CDR’s have been completed and that 27 teams have registered for this year’s event. Paul stated that there is a desire to grow the North West’s involvement in this programme and we have been asked if our committee can help.
A discussion took place regarding how we could best help, by just giving contacts or going into universities to sell it. It was thought that selling it would be best suited to the people directly involved.

Action: Committee. The committee took an action to have a read up on the UAS Challenge and have a think about how we could best support it.
Paul reported that the AMSTAC Graphene event was to be run as a half day event at the NEC, but that AMSTAC ar still interested in holding an event in the North west in the first half of next year.
Billy Beggs reported that he has contacts at the National Graphene Institute, and that he could arrange a meeting with their CEO. It was decided to discuss this event further at the next meeting.

Action: Rebecca to add it to the agenda of the next meeting.

8 NEW GDPR REGULATIONS 2018
Paul reported that Lisa Meenan gave a presentation on the subject. After a discussion among the committee it was decided that we need to send an email to all non-IMechE members of our IMechE Aerospace North West committee, asking them to register with IMechE and the instructions on how to do so.

Action: Rebecca to email all non IMechE members of our committee.

Action: Paul Gardner took an action to make enquiries regarding our local arrangements for sending emails amongst committee members.

http://nearyou.imeche.org/near-you/UK/North-Western/Aerospace-North-West
9 EVENTS & ACTIVITIES PROGRAMME - 2018

The preferred day for events to be held is a Tuesday.

9.1 Solvay Visit

Title: Technical visit to Solvay
Date: TBD September 2018
Venue: UCLAN
Time: TBD
Organiser: Joseph Soltan

Joseph Soltan reported at the last meeting that a visit would be in the form of a lecture followed by a tour around the R&D labs. It was suggested at the last meeting that we ask them to hold a lecture in the North West first and then gauge interest in a visit to Derby from the attendees. See section 5.3 for the update.

9.2 Use of Graphene in Aerospace

Title: TBD
Date: TBD November 2018
Venue: UCLAN
Time: 6:00 for 6:30pm
Organiser: Billy Beggs

9.3 SAFRAN Nacelles Visit

Date: TBC early to mid 2018
Venue: SAFRAN Nacelles Burnley
Time:
Organiser: Paul Gardner

Paul reported that he still needs to confirm a date.

10 EVENTS & ACTIVITIES PROGRAMME - 2019

10.1 Joint Event with RAeS Manchester Branch

Title: Beluga XL /Aerodynamics & Commercial Aircraft
Date: TBD Jan/Feb 2019
Venue: TBD
Time: TBD
Organiser: Thurai Rahulan

Thurai reported that Bahooza has agreed to this event but that it would need to be held in January or February in 2019. This lecture is to be joint wit RAeS Manchester Branch.
10.2 **Model Aircraft event**

Andrew Medd reported that Lancashire area ran a Model Aircraft event in Witton Park in Blackburn a couple of years ago, that also included drones. Andrew has provided the committee with contact details for the event from Lancashire Area.

It was decided that when the next Model Aircraft event was taking place was too soon to organize and that the event should be held in April 2019.

Thurai Rahulan again reported that RAeS Manchester branch were running a Model Aircraft event at the Woodford Heritage Centre in September.

11 **ANY OTHER BUSINESS**

11.1 **Jet Engine Model**

It was suggested that we buy a jet engine model with our surplus funds.

11.2 **Lancashire Science Festival**

Andrew Medd reminded the committee about the Lancashire Science Festival on Saturday 30th June, and asked if anyone else would like to volunteer and to let him know if so.

*Action: committee.*

11.3 **Articles for the Newsletter**

Andrew Medd asked if we had and articles we wanted including in the Lancashire Area newsletter even if it is just a skeleton programme with a note saying check the website for details.

*Action: Rebecca* to send draft programme to Amy Turner.

12 **DATE OF NEXT MEETING**

Next meeting: **Monday 2nd July 2018** – at David Lloyd Club, Chorley, 18:15.

Thurai Rahulan gave his apologies for the next meeting.
13 DATE OF PROPOSED IMECHE COMMITTEE MEETINGS 2018

- Monday 22 January 2018
- Monday 5 March 2018
- Monday 16 April 2018
- **Thursday** 24 May 2018
- Monday 2 July 2018
- Monday 3 September 2018
- Monday 15 October 2018
- Monday 3 December 2018

**Minutes taken by:**
Rebecca Donald-Lopez
Hon Secretary IMechE Aerospace North West
24th May 2018
Appendix 1

IMechE ANW 2018 Programme

* TUESDAY is the preferred day for events to be held

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>VENUE</th>
<th>TITLE</th>
<th>LECTURER</th>
<th>ORGANISER</th>
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<tr>
<td>Wednesday 10 January 2018</td>
<td>13:30 for 14:00</td>
<td>UCLAN</td>
<td>Emergency Service Drone Use</td>
<td>Martin Hyman Joint with Fire Service</td>
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<tr>
<td>Thursday 18 January 2018</td>
<td>18:00 for 18:30</td>
<td>MMU Room JDT0.03 John Dalton Building</td>
<td>Trent Engine</td>
<td>Frank Kirkland</td>
<td>Paul Gardner</td>
</tr>
<tr>
<td>Wednesday 21 March 2018</td>
<td>18:00 for 18:30</td>
<td>David Lloyd Club Chorley</td>
<td>Unmanned Aerial Vehicles (UAV) - British Antarctic Survey</td>
<td>TBD</td>
<td>Martin Hyman</td>
</tr>
<tr>
<td>Late October 2018</td>
<td>18:00 for 18:30</td>
<td>UCLAN</td>
<td>Application of Materials by Solvay</td>
<td>Joseph Soltan</td>
<td></td>
</tr>
<tr>
<td>November 2018</td>
<td>18:00 for 18:30</td>
<td>UCLAN</td>
<td>Use of graphene in Aerospace</td>
<td>Billy Beggs</td>
<td>Rebecca Donald-Lopez</td>
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<tr>
<td>TBD 2018</td>
<td></td>
<td>SAFRAN Nacelles Burnley</td>
<td>Visit to SAFRAN Nacelles</td>
<td>Paul Gardner</td>
<td></td>
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# IMechE ANW 2019 Programme

* TUESDAY is the preferred day for events to be held

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>VENUE</th>
<th>TITLE</th>
<th>LECTURER</th>
<th>ORGANISER</th>
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<tbody>
<tr>
<td>Jan / Feb 2019</td>
<td></td>
<td></td>
<td>Beluga XL / Aerodynamics &amp; Commercial Aircraft</td>
<td>Behrooz Barzegar</td>
<td>Thurai Rahulan Joint with RAeS</td>
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<tr>
<td>March 2019</td>
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<tr>
<td>TBD April 2019</td>
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<td>Witton Park Blackburn</td>
<td>Model Aircraft Event</td>
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<td>May 2019</td>
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<td>November 2019</td>
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## Appendix 2

### Treasurers Report

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**TOTAL**                                                                 |         |           | £6,362.93       |
### Projected Expenditure for January 2018 to December 2018

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<td>Mar-16</td>
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<td></td>
<td>150.00</td>
<td>5650.53</td>
<td>6362.53</td>
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</tbody>
</table>

**Total Meeting Costs**  666.00  367.60  368.40
**Total Events Costs**  2060.00  1490.88  1569.12
**Total Equipment Costs**  1400.00  1400.00  1400.00
**Total Expenditure for Year**  2976.00  2063.60  2063.60
**Year End Balance**  5650.53  6362.03  6362.53
Appendix 3

Wish List of Future Events

- Samlesbury ASK Facility Visit
- Uber Vertical Taxi
- Jet Suit – Richard Browning
- Airbus Beluga XL
- Clean Sky 2 - compound helicopter
- Aero Gearbox International
- Wind Turbine Blades - Siemens have recently opened a factory in Hull.
- Manchester Airport Upgrade Plans – Clive Winby WIP
- Concorde & Son of Concorde – Next generation supersonic aircraft & Concorde Visit
- Subsidized visit to Concorde only– Aviation viewing park
- Nimrod replacement talk & visit – Aviation viewing park
- Model Aircraft
- Maintenance
- Aircraft ducting
- Aircraft de-icing
- Aerodynamics
- Hawk hook on AC carriers
- Hawk systems into a new airframe
- F35 Aircraft Carrier operations
- Hot Air Balloon lecture possibly combined with Balloon Festival
- Hand Glider Material
- Woodford Flight Simulator – Oxford Aviation
- Rolls Royce Engine Lecture (2021 development and 2025 Ultrafan)
- Aerial Survey/Google Maps
- New MBDA factory tour
- Space Tourism
- The Crash Detectives (book by Christine Negroni)
- Avionics Lecture